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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/754,152	01/09/2004	Jon Douglas Shearer	GRDSP0291USB	7471
75	90 07/26/2005		EXAMI	INER
Mark D. Saralino			NORMAN, MARC E	
Renner, Otto, B	oisselle & Sklar, LLP			
Nineteenth Floor			ART UNIT	PAPER NUMBER
1621 Euclid Avenue			3744	
Cleveland, OH 44115-2191			DATE MAILED: 07/26/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	<del></del>			
	10/754,152	SHEARER, JON D	OUGLAS			
Office Action Summary	Examiner	Art Unit				
	Marc E. Norman	3744				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence add	Iress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a sy within the statutory minimum of thin will apply and will expire SIX (6) MON, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this con BANDONED (35 U.S.C. § 133).	nmunication.			
Status						
1) Responsive to communication(s) filed on 13 M	ay 2005.					
2a) This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal mat	ters, prosecution as to the	merits is			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	_			
Disposition of Claims						
4) ☐ Claim(s) 1-23 is/are pending in the application.  4a) Of the above claim(s) 21-23 is/are withdraw  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-7,14 and 15 is/are rejected.  7) ☐ Claim(s) 8-13 and 16-20 is/are objected to.  8) ☐ Claim(s) are subject to restriction and/o	vn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	animer. Note the attache	d Office Action of form 1	J-102.			
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priori	s have been received. s have been received in A rity documents have beer u (PCT Rule 17.2(a)).	Application No  received in this National S	Stage			
	and an analysis of the state of					
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7/21/04.		nformal Patent Application (PTO	-152)			

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Bhatnagar (U.S. Patent 6,006,996).

As per claim 1, Bhatnagar discloses a low noise solid state thermostat comprising thermostat 30, temperature sensor 1, comparator 5 for comparing the sensed temperature, solid state switching circuitry 11 switching current to an output device (heating element 31), a microprocessor (integrated circuit 97 with CPU 71), and memory 75 accessible by the microprocessor.

As per claim 2, the memory 75 of Bhatnagar is located within integrated circuit/processor 97 (Figure 11).

As per claim 3, Bhatnagar discloses upper and lower band set temperatures (cut-in and cut-out temperature limits).

As per claim 4, Bhatnagar discloses a user interface (see for example Abstract, lines 7-8).

As per claim 5, Bhatnagar discloses temperature setpoints being input via potentiometer

12.

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As per claims 6 and 7, Bhatnagar discloses all features of the claim as discussed above regarding claim 1, and further discloses detecting various fault conditions (see column 4, line 57, column 9, lines 28-31, etc.).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 14 and 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bhatnagar.

As per claims 14 and 15, Bhatnagar discloses display unit 18, does not specifically teach reporting the fault information thereto. It would have been an obvious modification to one of ordinary skill in the art at the time the invention was made to send the fault detection results detected by Bhatnagar to the display unit for the purpose apprising the user of the occurrence of a fault.

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#### Allowable Subject Matter

Claims 8-13 and 16-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc E. Norman whose telephone number is 571-272-4812. The examiner can normally be reached on Mon.-Fri., 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on 571-272-4834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MN

MARC NORMAN PRIMARY EXAMINER